

? s pn=de 59306266

S3 I PN=DE 59306266

? t s3/9/1

3/9/1

DIALOG(R)File 351:Derwent WPI

(c) 2003 Thomson Derwent. All rts. reserv.

009778195 **Image available**

WPI Acc No: 1994-058048/199408

XRPX Acc No: N94-045747

Earthwork sheeting mechanism with pairs of opposite, large plates - has pressure force and tensile force transmitting rollers on common axes

Patent Assignee: EMUNDS & STAUDINGER GMBH (EMUN-N); HESS W (HESS-I); KUEPPERS J (KUEP-I)

Inventor: HESS W; KUPPERS J; KUEPPERS J

Number of Countries: 022 Number of Patents: 014

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4226405	A1	19940217	DE 4226405	A	19920810	199408 B
WO 9403683	A1	19940217	WO 93EP2090	A	19930805	199408
AU 9347079	A	19940303	AU 9347079	A	19930805	199426
EP 612364	A1	19940831	EP 93917756	A	19930805	199433
			WO 93EP2090	A	19930805	
CZ 9400790	A3	19940817	CZ 94790	A	19930805	199436
HU 66251	T	19941028	WO 93EP2090	A	19930805	199443
			HU 94859	A	19930805	
SK 9400399	A3	19941109	SK 94399	A	19940406	199503
			WO 93EP2090	A	19930000	
US 5503504	A	19960402	WO 93EP2090	A	19930805	199619
			US 94211531	A	19940516	
AU 674333	B	19961219	AU 9347079	A	19930805	199708
EP 612364	B1	19970423	EP 93917756	A	19930805	199721
			WO 93EP2090	A	19930805	
DE 59306266	G	19970528	DE 506266	A	19930805	199727
			EP 93917756	A	19930805	
			WO 93EP2090	A	19930805	
HU 211372	B	19951128	WO 93EP2090	A	19930805	199733
			HU 94859	A	19930805	
ES 2101335	T3	19970701	EP 93917756	A	19930805	199736
CZ 282650	B6	19970813	WO 93EP2090	A	19930805	199739
			CZ 94790	A	19930805	

Priority Applications (No Type Date): DE 4226405 A 19920810

Cited Patents: DE 7435632

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

DE 4226405 A1 5 B

WO 9403683 A1 E 14 B

Designated States (National): AU CZ HU PL SK US

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL

PT SE

AU 9347079 A B Based on patent WO 9403683

EP 612364 A1 G B Based on patent WO 9403683

Designated States (Regional): AT BE DE ES FR GB IE IT NL PT

HU 66251 T B Based on patent WO 9403683

US 5503504 A 5 B Based on patent WO 9403683

AU 674333 B B Previous Publ. patent AU 9347079

Based on patent WO 9403683

EP 612364 B1 G 7 B Based on patent WO 9403683

Designated States (Regional): AT BE DE ES FR GB IE IT NL PT

DE 59306266 G B Based on patent EP 612364

			Based on patent WO 9403683
HU 211372	B	B	Previous Publ. patent HU 66251
			Based on patent WO 9403683
ES 2101335	T3	B	Based on patent EP 612364
CZ 282650	B6	B	Previous Publ. patent CZ 9400790
			Based on patent WO 9403683
CZ 9400790	A3	B	
SK 9400399	A3	B	

Abstract (Basic): DE 4226405 A

The pairs of large sheeting plates (2) are supported by opposite pairs of vertical struts (1) in an expanding frame. The struts have opposite shanks (16,16'), leaving a wide gap, from the strut side walls (15,15') angled parallel to the base wall (12). The frame is insertable into the gaps and carries pressure and tensile force transmitting rollers (11,11', 17,17').

The rollers are mounted on shared axes (10), with the pressure force transmitting rollers (11,11') fitted in the gap between one strut shank, while the tensile force transmitting rollers (17,17') are mounted on outside of the pressure force transmitting rollers. The roller dias. are specified.

USE/ADVANTAGE - Low-cost assembly of earthwork sheeting with reliable guidance of the expansion frame.

Dwg. 2/2

Abstract (Equivalent): EP 612364 B

A sheeting device having large-sized sheeting panels (2,4) arranged in pairs mutually facing each other supported against vertical supports (1,3) which are positioned in pairs mutually facing each other and which are held in spaced-apart relationship by at least one spreader frame (5), the side walls (15,15) of the supports (1,3) having legs (16,16') bent in parallel to the base wall, lying opposite to each other and leaving a broad gap between them, and the spreader frame (5) in the gaps of mutually opposing supports (1,3) being guided in a vertically movable manner with positive fit in the horizontal direction by means of rollers (11,11') transmitting pressure forces of the spreader frame and running on the base wall (12) of the supports (1,3) and by means of rollers (17,17') transmitting traction forces of the spreader frame (5) and running on the inner sides of the two legs (16,16') of a support, characterized in that the pressure forces-transmitting rollers (11,11') and the traction forces-transmitting rollers (17,17') are located on common axles (10), with the rollers (11,11') transmitting the pressure forces being located within the gap between the legs (16,16') of a support (1,3) and having a diameter that is larger than the distance of said legs (16,16') from the base wall (1,2), and the rollers (17,17') transmitting the traction forces having a smaller diameter and being located at the respective outwardly directed sides of the pressure forces-transmitting rollers (11,11').

Dwg. 1/2

Abstract (Equivalent): US 5503504 A

A sheeting device having large-size sheeting panels arranged in pairs mutually facing each other supported against vertical supports which are positioned in pairs mutually facing each other and which are held in spaced-apart relationship by at least one spreader frame, the side walls of the supports having legs bent in parallel to the base wall, lying opposite to each other and leaving a broad gap between them, and the spreader frame in the gaps of mutually opposing supports being guided in a vertically movable manner with positive fit in the horizontal direction by means of rollers transmitting pressure forces of the spreader frame and running on the base wall of the supports and by means of rollers transmitting traction forces of the spreader frame and running on the inner sides of the two legs of a support, wherein

the pressure forces-transmitting rollers and the traction forces-transmitting rollers are located on common axles, with the rollers transmitting the pressure forces being located within the gap between the legs of a support and having a diameter that is larger than the distance of said legs from the base wall, and the rollers transmitting the traction forces having a smaller diameter and being located at the respective outwardly directed sides of the pressure forces-transmitting rollers.

Dwg. 1/2

Title Terms: EARTHWORKING; SHEET; MECHANISM; PAIR; OPPOSED; PLATE; PRESSURE ; FORCE; TENSILE; FORCE; TRANSMIT; ROLL; COMMON; AXIS

Derwent Class: Q42

International Patent Class (Main): E02D-005/00; E02D-017/04; E02D-017/08

File Segment: EngPI